

**WHAT IS CLAIMED IS:**

1. A machine for forming parts, comprising:

a mold;

5 means for opening and closing said mold;

an infrared sensor in view of said mold, wherein at least one of the parts formed by said machine is assessable by said infrared sensor;

means for analyzing the assessment data from said infrared  
10 sensor, said analyzing means generating an indication of the optimization of the length of time the parts have cooled, said analyzing means in communication with said means for opening and closing said mold, wherein said means for opening and closing said mold is responsive to said indication.

15

2. A sensory system and method comprising:

at least one sensor, wherein data is obtained regarding the status of a formed part within a mold by said at least one sensor;

means for analyzing said data from said at least one sensor  
20 for determination of the thermographic status of the formed part;

means for communicating said data analysis to direct a course of action of a process.

3. A method of inspecting the status of a molded part,  
25 comprising the steps of:

- b. utilizing said infrared thermograph to report the temperature of the outside of the part;
- c. transferring said temperature data to an analyzer;
- c. analyzing said temperature data; and
- 5 d. sending a signal to a controller, wherein said controller is responsive to said signal from said analyzer.